

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/001766

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H03G1/00 H03G3/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H03G H04B H03F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 909 643 A (AIHARA YUUKICHI) 1 June 1999 (1999-06-01) column 3, lines 30-57 figure 1	1-15
A	WO 01/67621 A (QUALCOMM INC) 13 September 2001 (2001-09-13) the whole document	1-15
A	US 5 296 821 A (PETERSEN MICHAEL W ET AL) 22 March 1994 (1994-03-22) column 2, line 32 - column 3, line 10 figure 4	1-15
A	EP 1 229 642 A (SONY INT EUROP GMBH) 7 August 2002 (2002-08-07) cited in the application paragraphs '0001! - '0045! figure 1	1-15

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- * & * document member of the same patent family

Date of the actual completion of the international search

3 June 2004

Date of mailing of the international search report

29/06/2004

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Information on patent family members

International Application No

PCT/EP2004/001766

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5909643	A	01-06-1999	JP 9148852 A CN 1154610 A , B	06-06-1997 16-07-1997
WO 0167621	A	13-09-2001	US 6721368 B1 AU 4338401 A CA 2401891 A1 CN 1461522 T EP 1264411 A2 JP 2004500775 T WO 0167621 A2	13-04-2004 17-09-2001 13-09-2001 10-12-2003 11-12-2002 08-01-2004 13-09-2001
US 5296821	A	22-03-1994	NONE	
EP 1229642	A	07-08-2002	EP 1229642 A1	07-08-2002